

RADIOACTIVE WASTE PROFILE RECORD

A. GENERATOR AND WASTE STREAM INFORMATION

GENERAL: Complete this form for one waste stream. Contact EnergySolutions at (801) 532-1330 if you have any questions while completing this form. Please indicate "N/A" if a category does not apply.

1. GENERATOR INFORMATION

Generator Name: EnergySolutions for GTE Operations Support Incorporated EPA ID #: N/A
 Generator Contact: Kenneth Sperry Title: Project Manager
 Mailing Address: One Verizon Way
Basking Ridge, New Jersey Utah Site Access Permit #: 100 500 5820
 Phone: 908-559-3692 Fax: 908-630-2637 Email: kenneth.sperry@verizon.com
 Contractor Name: EnergySolutions Location of Waste (City, State): Hicksville, NY
 Name & Title of Person Completing Form: Adam Jones Phone: 801-557-5141 Email: ajones@energysolutions.com

2. WASTE STREAM INFORMATION

Waste Stream ID: 0616-01 Waste Stream Name: Soil and Debris State of Origin: NY
 Revision: 0 Date: 10/31/10 Volume (ft³): 250 Delivery Date: 11/22/10

CHECK APPROPRIATE BOXES BELOW. Please verify the required forms requested below are completed and submitted with the Radioactive Waste Profile Record.

HAZARDOUS WASTE: Is the waste classified as hazardous waste as defined by 40 CFR 261?

- ☒ If **NO**, complete and attach the "Low-Level Radioactive Waste Certification Attachment".
☐ If **YES**, complete and attach the "Hazardous Waste Certification Attachment" and check applicable box below.
 Has the waste been treated to meet applicable treatment standards per 40 CFR 268? ☐ Y ☐ N
 Is the waste to be treated by EnergySolutions? ☐ Y ☐ N

LOW-LEVEL RADIOACTIVE WASTE: Is the radioactive waste defined as Low-Level Radioactive Waste in accordance with the Low-Level Radioactive Waste Policy Amendments Act of 1985 or in DOE Order 435.1?

- ☒ If **YES**, a current copy of a LLRW Compact Export letter authorizing export must be submitted if applicable. This authorization is applicable for non-DOE LLRW (i.e., Mixed Waste, NORM/NARM, 11e.(2) material, and waste from DOE do not require a Compact Export Letter).
☐ If **NO**, check appropriate box: NORM/NARM ☐ 11e.(2) Byproduct Material ☐ Other: _____

SPECIAL NUCLEAR MATERIAL: Does the waste stream contain material with uranium enriched in U-235 or any of the following radionuclides: U-233, Pu-236, Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, Pu-243, or Pu-244?

- ☐ Y ☒ N If Yes, complete and attach the "SNM Exemption Certification" form (EC-0230-SNM). Supporting statements, analytical results, and documentation must be included with the submittal.

PCB WASTE: Does the waste contain Polychlorinated Biphenyls (PCB) that are regulated for disposal per 40 CFR 761?

- ☐ Y ☒ N If Yes, complete and attach the "PCB Waste Certification" form (EC-98279).

ASBESTOS: Does the waste contain Asbestos Containing Material?

- ☐ Y ☒ N If Yes, Asbestos Containing Material must be managed in accordance with applicable federal regulations. Provide a detailed description of the waste containing asbestos in Section B.5 of the waste profile.

RADIOACTIVE WASTE PROFILE RECORD

B. WASTE PHYSICAL PROPERTIES & PACKAGE INFORMATION

1. GENERAL CHARACTERISTICS

Does the waste contain free liquids? Y ☐ N ☒ If Yes, what is the percent of free liquid by waste volume? _____ %

If Yes, is the liquid aqueous (water-based)? Y ☐ N ☐

Does the waste contain absorbent? Y ☐ N ☒ Density range of the waste: 35 - 490 g/cc ☐ lb/ft³ ☒

List percentage of waste type by volume: Soil 45% Concrete & Metal 50% DAW 5% Resins _____% Sludge _____%

Other constituents and percentage by volume? _____

2. MATERIAL SIZE

Gradation of Material: Indicate the percentage of waste material that would **pass through** the following grid sizes. For example, 95% of the material would pass through a 12" square, 90% passes through a 4" square, 80% passes through a 1" square, etc.

12" 25 % 4" 20 % 1" 15 % 1/4" 10 % 1/40" 2 % 1/200" 0 %

Does the waste stream contain oversize debris (i.e., no dimension < 10 inches and any dimension > 12 feet)? Y ☒ N ☐
If Yes, include a detailed description (i.e., weight, size, drawings, etc.) of the oversize debris in the narrative of Section B.5.

3. MOISTURE CONTENT

For soil or soil-like materials, please use **Std. Proctor Method ASTM D-698** to determine the optimum moisture content. The waste material must not exceed 3 percentage points above optimum moisture upon arrival at EnergySolutions' disposal facility unless approved by EnergySolutions.

Optimum Moisture Content: N/A % at Maximum Dry Density (lb/ft³): _____

Average Moisture Content: _____ % Moisture Content Range: _____ % - _____ %

4. WASTE SHIPPING & PACKAGING

Transportation Mode: ☐ Highway ☒ Rail

Shipping & Container Packages: ☒ Drums* (≤ 85 gallons) ☐ Boxes (≤ 100 ft³) ☒ Soft-Sided Bags (≤ 10 yd³)
(Check all that apply)

☐ Intermodal ☐ Sealand ☒ Gondola** ☐ Box Car

Other:

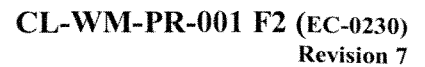
*Palletized drums are preferred by the disposal site. Please specify in the "Other" field if drums will not be palletized.

**Dimensions of gondola railcars must be between 48 to 65 feet in length and 8.5 to 12.5 feet in height as measured from the top of the rail to the top of the railcar unless approved by EnergySolutions.

5. NARRATIVE DESCRIPTION AND HISTORY OF WASTE

Please submit a narrative description and history of the waste as an attachment to the Radioactive Waste Profile Record. This attachment should include the following:

- Process that generated the waste
- Waste material physical composition and characteristics
- Radiological and chemical characterization method
- Basis for determining manifested radionuclide concentrations
- Description and amounts of absorbents, if applicable
- Basis of non-hazardous or hazardous waste determinations
- Treatment processes, if applicable
- Product information or Material Safety Data Sheets associated with the waste as applicable
- Information requested in other sections of this form



Waste Stream ID: 0616-01 Revision: 0 Date of Revision: 10/31/10

Obtain sufficient samples to adequately determine a range and weighted average of activity in the waste. Attach the gamma spectroscopy or radiochemistry data supporting the radionuclide information listed below.

1. Does the waste material contain accessible surfaces with contact dose rates greater than 500 mR/hr? Y ☐ N ☒
2. Does the waste material contain any of the following isotopes: Aluminum-26, Berkelium-247, Calcium-41, Californium-250, Chlorine-36, Rhenium-187, Terbium-157, or Terbium-158? Y ☐ N ☒
3. Please list the following information for each isotope associated with the waste. Provide an explanation in the narrative description of Section B.5 if the waste contains localized "hot spots" or elevated concentrations that significantly exceed the upper concentration range. If additional space is needed, provide an Attachment C.3 to this profile record formatted as below.

0616-01 Rev 0

RADIOACTIVE WASTE PROFILE RECORD

D. 3.	Former EPA HW Codes or Underlying Hazardous Constituents	Treatment Standard (mg/kg unless noted as mg/L TCLP or Technology Code)	Worst Case Concentration (mg/kg unless noted as mg/L TCLP)
	N/A		

4. OTHER CHEMICAL CONSTITUENTS

List any other chemical constituents of concern (e.g., PCBs, chelating agents, etc.) and worst-case concentrations. If additional space is needed, provide an Attachment D.4 to this profile record formatted as below.

Other Chemical Constituents	Worst-Case Concentration (mg/kg unless noted as mg/L TCLP)	Other Hazardous Constituents	Worst-Case Concentration (mg/kg unless noted as mg/L TCLP)
N/A			

5. LABORATORY CERTIFICATION

☒ **UTAH or NELAC CERTIFIED**

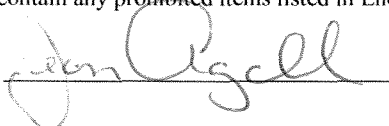
The Utah or NELAC certified laboratory holds a current certification for the applicable chemical test methods insofar as such official certifications are given. Please provide a copy of the laboratory's current certification letter for each parameter analyzed and each method used for chemical analyses required by this form.

☐ **OTHER LABORATORY CERTIFICATION** (Describe below)

6. CERTIFICATION

I certify that sample results representative of the waste described in this profile were or shall be obtained using state- and EPA-approved analytical methods. I also certify that where necessary representative samples were or shall be provided to EnergySolutions and to qualified laboratories for the analytical results reported herein. I further certify that the waste described in this record is not prohibited from land disposal in 40 CFR 268 (unless prior arrangements are made for treatment at EnergySolutions) and that all applicable treatment standards are clearly indicated on this form. I also certify that the information provided on this form is complete, true, and correct and is accurately supported and documented by any laboratory testing as required by EnergySolutions. I certify that the results of any said testing have been submitted to EnergySolutions. I certify that the waste does not contain any prohibited items listed in EnergySolutions' Radioactive Material License.

Generator's Signature:



Title:

Vice President

Date:

11-8-10

GTE Operations Support Inc.-61

RADIOACTIVE WASTE PROFILE RECORD

LOW-LEVEL RADIOACTIVE WASTE CERTIFICATION ATTACHMENT

This form is required only if the checkbox for Hazardous Waste on page one has been checked No. Otherwise, complete the Hazardous Waste Certification Attachment instead of this attachment. EnergySolutions may waive the chemical laboratory analyses if the material is not amenable to chemical sampling and analysis (e.g., debris items including metal pieces, concrete, plastic, etc.). Justification for waiving the chemical analyses must be provided in Section B.5.

D. MINIMUM REQUIRED CHEMICAL ANALYSIS

The following parameters must be analyzed by a Utah or NELAC certified laboratory. Typical SW-846 analytical methods have been listed. Other approved methods are acceptable. Attach the most recent or applicable chemical analytical results representing the waste.

1. GENERAL CHEMICAL PARAMETERS

SW-846 Analytical Methods

PFLT: Pass Vis Pass / Fail Method 9095 Not applicable for liquid radioactive waste streams.

2. 40 CFR 261.24 Table 1 – Contaminants of Toxicity Characteristic

Metals: Methods 6010 & *7470 ☒ TCLP (mg/L) or ☐ Total (mg/kg)

Arsenic <u>ND</u>	Chromium <u>ND</u>	Selenium <u>.018</u>
Barium <u>.239</u>	Lead <u>.008</u>	Silver <u>ND</u>
Cadmium <u>ND</u>	*Mercury <u>ND</u>	

Organics, Pesticides/Herbicides: Methods 8081/*8151 ☒ TCLP (mg/L) or ☐ Total (mg/kg)

Endrin <u>ND</u>	Toxaphene <u>ND</u>	Chlordane <u>.002</u>
Lindane <u>ND</u>	*2,4-D <u>ND</u>	Heptachlor <u>ND</u>
Methoxychlor <u>ND</u>	*2,4,5-TP Silvex <u>ND</u>	

Organics, Semi-Volatile: Method 8270 ☒ TCLP (mg/L) or ☐ Total (mg/kg)

o-Cresol <u>ND</u>	Hexachlorobenzene <u>ND</u>	Pentachlorophenol <u>ND</u>
m-Cresol <u>ND</u>	Hexachlorobutadiene <u>ND</u>	Pyridine <u>ND</u>
p-Cresol <u>ND</u>	Hexachloroethane <u>ND</u>	2,4,5-Trichlorophenol <u>ND</u>
Total Cresol <u>ND</u>	Nitrobenzene <u>ND</u>	2,4,6-Trichlorophenol <u>ND</u>
2,4-Dinitrotoluene <u>ND</u>		

Organics, Volatile: Method 8260 ☒ TCLP (mg/L) or ☐ Total (mg/kg)

Benzene <u>ND</u>	1,4-Dichlorobenzene <u>ND</u>	Methyl ethyl ketone <u>ND</u>
Carbon Tetrachloride <u>ND</u>	1,2-Dichloroethane <u>ND</u>	Tetrachloroethylene <u>ND</u>
Chlorobenzene <u>ND</u>	1,1-Dichloroethylene <u>ND</u>	Trichloroethylene <u>ND</u>
Chloroform <u>ND</u>	Vinyl Chloride <u>ND</u>	

3. Was the waste at the point of generation a RCRA hazardous waste per 40 CFR 261? Y ☐ N ☒

If Yes, list former hazardous waste codes and former underlying hazardous constituents. List worst-case concentrations for each hazardous constituent. If additional space is needed, provide an Attachment D.3 to this profile record formatted as below. Attach the most recent chemical analytical results demonstrating compliance with applicable treatment standards.

If No, indicate "N/A" in Section D.3 below.

ATTACHMENT B.5 PHYSICAL PROPERTIES

Generator Name: ES for GTEOSI Waste Stream ID: 0616-01
Revision #: 0 Revision Date: 10/31/10

General/Process

This waste stream consists of steel sheet piling and a small amount of soil/DAW that was generated during the removal of the sheet piling. Pictures of the sheet piling have been attached to the profile for reference.

Packaging/Transportation

All waste will be packaged in bags or drums and placed in a gondola for final transport to Clive. The soil and debris will be packaged together in drums, the steel will be packaged separately in bags.

Chemical Characterization

Samples of the soil were collected, analyzed and used to characterize this waste. Analytical results from the samples have been attached to the profile.

Radiological Characterization

Samples were taken of the waste and used to determine the isotopic concentrations for the profile and radioactive waste manifests.



GTE Operations Support Incorporated
One Verizon Way (VC34W453)
Basking Ridge, New Jersey 07920

February 25, 2011

Ms. Alyse Peterson
New York State Energy Research and Development Authority
Radioactive Waste Policy and Nuclear Coordination Program
17 Columbia Circle
Albany, New York 12203-6399

Re: **2010 Low-Level Radioactive Waste Report**
For: Former Sylvania Electric Products Incorporated Facility
By: GTE Operations Support Incorporated
Site #: V-00089-1 Index #: W1-0844-98-08 and W1-0903-01-12

Dear Ms. Peterson:

Enclosed is the 2010 Low-Level Radioactive Waste Report for GTE Operations Support Incorporated.

If you have any questions I can be reached at (908) 559-3687.

Sincerely,

Jean M. Agostinelli
Vice President and Controller

cc: John Zeh
Division of Solid and Hazardous Materials
Bureau of Hazardous Waste & Radiation Management
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7255

Jerry Riggi
Division of Solid and Hazardous Materials
Bureau of Hazardous Waste & Radiation
Management
New York State Department of
Environmental Conservation
625 Broadway
Albany, NY 12233-7255

Mr. Robert DeCandia
Division of Environmental Remediation
New York State Department of
Environmental Conservation
625 Broadway, 11th Floor
Albany, NY 12233-7015

Ms. Alyse Peterson
February 25, 2011
Page 2 of 2

bcc: via US Mail

William Pratt
Kirkland & Ellis
153 East 53rd St
New York, NY 10022

David Feldman, Esq.
Legal Department
Verizon Corporate Services
One Verizon Way
MC: VC54N088
Basking Ridge, NJ 07920

Lisa K. Rushton
Paul, Hastings, Janofsky & Walker
875 15th Street
N.W. Washington, DC 20005

IMPORTANT c PLEASE READ

If your facility generates LLRW that
requires disposal in a licensed LLRW disposal facility
or stores LLRW pending disposal,
you must use this complete
Low-Level Radioactive Waste Report Form.

However, if your facility manages LLRW by
DECAY IN STORAGE ONLY
(i.e., short-lived radionuclides)
you must instead use the
Condensed Form for Decay in Storage Only.

If you have any questions about
which form to complete, contact Alyse Peterson at
NYSERDA c (518) 862-1090, ext. 3274 or
llradmin@nyserda.org

Filing Deadline: March 1st - Annually

ABOUT THE REGULATORY AGENCIES

In general, the receipt, possession and use or processing of radioactive material, including low-level radioactive waste (LLRW), requires a radioactive material license from the appropriate New York regulatory agency or the U.S. Nuclear Regulatory Commission. Normally, a single license from a single licensing agency is all that is required for most institutions, corporations, utilities, etc. If an institution or corporation holds multiple licenses under which LLRW was generated, or if people in the organization hold individual licenses under which LLRW was generated, then all of those licenses and the respective licensing agencies must be identified. In that case, append a list of the license numbers and the licensing agencies to the Report Form. The licensing agencies and their respective jurisdictions are:

New York State Department of Health

§ Regulates radioactive material users (e.g., hospitals and universities) in New York State outside of New York City, plus industrial users in New York City.

New York City Department of Health

§ Regulates non-industrial radioactive material users in New York City.

U.S. Nuclear Regulatory Commission

§ Regulates federal radioactive material users (e.g., Veterans Administration hospitals) and major nuclear facilities (e.g., nuclear power plants) in New York State.

GUIDELINES TO THE GENERATOR REPORT FORM

Waste Management Method	Description	Sections to Complete
Storage for Decay C On Site	LLRW containing radionuclides with half-lives up to 90 days stored on site for decay and eventual disposal as non-radioactive waste.	Sections I, II-A, II-G, IV, V NOTE: If managing LLRW by Storage for Decay only, use the condensed form
Storage for Decay C Off Site	Same as above. The LLRW being reported has been transferred to an off-site facility.	Sections I, II-A, II-D, II-G, IV, V See note directly above.
Interim Storage C On or Off Site	LLRW containing radionuclides with half-lives greater than 90 days being held in long-term storage pending disposal. THIS DOES NOT REFER TO ROUTINE ACCUMULATION OF LLRW FOR SUBSEQUENT TRANSFER TO A LICENSED DISPOSAL FACILITY.	Sections I, II-A through C, II-F through I, III, IV, V, VI
Interim Storage C On or Off Site after Processing	Same as above.	All
Ship for Disposal C Direct	LLRW received by a licensed disposal facility via direct transfer from generator.	Sections I, II-A through C, II-F through I, III, IV, V, VI
Ship for Disposal via Broker Processor	Some LLRW may undergo additional treatment prior to disposal. Please consider this when reporting LLRW volume in Section II-E. If you use a broker to transport your LLRW, he/she can supply this information.	All

RETURN ANNUALLY BY MARCH 1st TO:

NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY

Radioactive Waste Policy and Nuclear Coordination Program

17 Columbia Circle

Albany, NY 12203-6399

llwadmin@NYSERDA.ORG

CODE (official use only)

| | | | |

NOTE: Please refer to the **Instructions** before completing this form.

LOW-LEVEL RADIOACTIVE WASTE

FOR THE PERIOD: JANUARY 1st THROUGH DECEMBER 31st

REPORT FORM

PLEASE TYPE OR PRINT LEGIBLY

SECTION I. GENERATOR INFORMATION

A Updated Generator Information

ENTER 4-DIGIT GENERATOR ID (can be found on the mailing label on annual postcard): 1138

ENTER REPORTING YEAR: 2010

Licensing Agency/ies

License No(s).

New York State Department of Health

C-3095

New York City Department of Health

Not Applicable (N/A)

U.S. Nuclear Regulatory Commission

N/A

Your Facility

Phone No.: (908)559 - 3692

Ext:

Email Address:

Kenneth.Sperry@verizon.com

Contact: Kenneth Sperry

Title: Project Manager

Facility Name: GTE Operation Support Incorporated

Street Address: One Verizon Way, VC34W416

City: Basking Ridge

County: Somerset

State: NJ

Zip Code:
07920

B Name and principal office of facility where LLRW is generated if different from A (above)

Street Address: 140 Cantiague Rock Road

City: Hicksville

County: Nassau

State: NJ

Zip Code:
11801

C Preparer's Name: Kenneth Sperry

Title:

Project Manager

Telephone and Extension:

(908) 559 - 3692

D	Identify, by issuing authority and number, permits that authorize transfer of your LLRW to a licensed LLRW disposal facility:		
	Issuing Authority	Disposal Site Location	Disposal Site Use Permit Number
	Utah DEQ - Division of Radiation Control	Clive, Utah	1005005820

E	FACILITY TYPE CODE Type in the appropriate letter and number for the appropriate code OR choose one from EACH DROP-DOWN MENU BELOW. Refer to the instructions to determine the facility type code that best describes your facility. Choose only one code consisting of a letter and number.
	Choose a Letter: I. Industrial Other* Choose a Number: _____ or _____

F	Briefly describe the activities, processes, or uses of radioactive material that result in LLRW generation at your facility.
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In 2010, Steel, Soil, and Dry Active Wastes were generated during structural stabilization of the 100 Building by GTE Operations Support Incorporated (GTEOSI) at the former Sylvania Products Incorporated facility. This material was packaged and shipped to Energy Solutions on November 11, 2010. The material was received for disposal by Energy Solutions in Clive Utah on January 17, 2011.

This Report Form has been submitted by the preparer listed in item I(C) above. In submitting this form, preparer hereby certifies that the information set forth is true to the best of the preparer's knowledge.

DATE: 2/25/2011

SECTION II. INFORMATION ON LLRW

A. LLRW AS GENERATED

Waste Description Code	Waste Management Method	Chemical Form Code	Other Hazard Code
1	2	3	4
1 A22	W2	C4	H8
2 A59	W2	C4	H8
3			
4			
5			
6			
7			
8			
9			
10			
11			

CODES for SECTION II of the LOW-LEVEL RADIOACTIVE WASTE REPORT FORM

Note: If you respond "other" to any item, please provide an explanation on the Attachment Sheet provided in Section VII.

A. LLRW AS GENERATED

1 WASTE DESCRIPTION CODE

Choose the category that best describes the waste.

- 20 Charcoal
- 21 Incinerator Ash
- 22 Soil
- 23 Gas
- 24 Oil
- 25 Aqueous Liquid
- 26 Filter Media
- 27 Mechanical Filter
- 29 Demolition Rubble
- 30 Cation Ion-exchange Media
- 31 Anion Ion-exchange Media
- 32 Mixed Bed Ion-exchange Media
- 33 Contaminated Equipment
- 34 Organic Liquid (except oil)
- 35 Glassware or Labware
- 36 Sealed Source/Device
- 37 Paint or Plating
- 38 Evaporator Bottoms/Sludges/Concentrates
- 39 Dry or Compactible Trash (paper, plastic, glass, etc.)
- 40 Noncompactible Trash (metal components, etc.)
- 41 Animal Carcass
- 42 Biological Material (except animal carcass)
- 43 Activated Material
- 44 Material that will be Incinerated
- 59 Other (describe)

2 WASTE MANAGEMENT

METHOD

Transfer to Authorized Recipient

- W1 Transfer to Disposal Site via Broker
- W2 Transfer to Disposal Site Directly
- W3 Transfer - Other (describe)

Interim Storage

- W4 Placed in Storage before current reporting year
- W5 Placed in Storage during current reporting year
- W6 Shipped for Treatment prior to Storage

Storage for Decay

- W7 Storage for Decay (Only limited information required. See instructions.)

3 CHEMICAL FORM CODE

- C1 Paper and Plastic
- C2 Glass
- C3 Metals
- C4 Metal Oxides
- C5 Inorganic Salts
- C6 Organic Salts
- C7 Nucleic Acids
- C8 Amino Acids, Proteins, Enzymes
- C9 Carbohydrates, Sugars
- C10 Lipids, Fatty Acids
- C11 Other (describe)

4 OTHER HAZARD CODE

- H1 Ignitable
- H2 Corrosive
- H3 Toxic
- H4 Reactive
- H5 Pathogenic
- H6 Carcinogenic
- H7 Other (describe)
- H8 None

B. ON-SITE WASTE TREATMENT

Treatment Code		Sorption or Solidification Code	Effect of Treatment	Post-Treatment Volume (m ³)
5		6	7	8
1	T21	100	N/A	N/A
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

B. ON-SITE WASTE TREATMENT

5 TREATMENT CODE

T1 Compaction
 T2 Supercompaction
 T3 Evaporation/ Crystallization
 T4 Fluid Bed Drying/ Calcination
 T5 Wet Oxidation
 T6 Membrane Separation
 (ultrafiltration, reverse osmosis)
 T7 Incineration
 T8 Solidification
 T9 Adsorption
 T10 Sorting/Segregation
 T11 Macroencapsulation
 T12 Absorption
 T13 Decontamination
 T14 Surface Removal (scabbing,
 abrasive cleaning)
 T15 Dry Chemical Packing (lime)
 T16 Size Reduction (sectioning,
 shredding, cutting)
 T17 Steam Reform
 T18 Catalytic Extraction Process
 T19 Dewatered
 T20 Other (describe)
 T21 None

6 SOLIDIFICATION OR SORPTION CODE

Sorption

60 Speedi Dri
 61 Celetom
 62 Floor Dry/Superfine
 63 Hi Dri
 64 Safe T Sorb
 65 Safe N Dri
 66 Florco
 67 Florco X
 68 Solid A Sorb
 69 Chemsil 30
 70 Chemsil 50
 72 Dicapert HP200
 73 Dicapert HP500
 74 Petroset
 75 Petroset II
 76 Aquaset
 77 Aquaset II
 89 Other (describe)

Solidification

90 Cement
 91 Concrete (encapsulation)
 92 Bitumen
 93 Vinyl Chloride
 94 Vinyl Ester Styrene
 99 Other (describe)
 100 None Required

7 EFFECT OF TREATMENT

Impact of treatment on volume may be shown in percent or ratio. Note increase or decrease by 8 or 9, and describe change in chemical and physical form.

8 POST-TREATMENT VOLUME

Volume must be noted in cubic meters (m³).

SECTION II. INFORMATION ON LLRW (cont.)

C. ON-SITE CONTAINER INFORMATION

D. BROKER/PROCESSOR INFORMATION

Container Description Code	Container Volume (m³)	Maximum Surface Radiation Level (mSv/hr)	Number of Containers	Broker Code	Processor Code	Treatment Code
9	10	11	12	13	14	15
1 19	10.10	<0.0002	1	BC9	P10	T21
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						

C. ON-SITE CONTAINER INFORMATION

9 CONTAINER DESCRIPTION CODE

- 1 Wooden Box or Crate
- 2 Metal Box
- 3 Plastic Drum or Pail
- 4 Metal Drum or Pail
- 5 Metal Tank or Liner
- 6 Concrete Tank or Liner
- 7 Polyethylene Tank or Liner
- 8 Fiberglass Tank or Liner
- 9 Demineralizer
- 10 Gas Cylinder
- 11 Bulk, Unpackaged Waste
- 12 Unpackaged Components
- 13 High-Integrity Container
- 14 Fiberboard Drum
- 19 Other (describe)

10 CONTAINER VOLUME

Volume must be noted in cubic meters (m³).

11 MAXIMUM SURFACE RADIATION LEVEL

Surface radiation must be noted in mSv/hr.

12 NUMBER OF CONTAINERS

This information is required for each waste form.

D. BROKER/PROCESSOR INFORMATION

13 BROKER CODE

- BC1 NDL
- BC2 Radiac
- BC3 Adco
- BC4 Teledyne
- BC5 US Ecology
- BC6 Chem-Nuclear
- BC7 SEG
- BC8 Bionomics
- BC9 Direct transfer
- BC10 Other (describe)
- BC11 None

14 PROCESSOR CODE

- P1 GTS Duratek
- P2 NSSI
- P3 DSSI
- P4 Chem Nuclear, IL
- P5 Alaron
- P6 Quadrex, TN
- P7 Permafex, FL
- P8 ATG, TN
- P9 ATG, WA
- P10 Other (describe)

15 TREATMENT CODE

See codes B-5.

SECTION II. INFORMATION ON LLRW (cont.)

E. POST-PROCESSOR TREATMENT INFORMATION		F. OTHER CHARACTERISTICS				
Effect of Treatment	Total Post-Treatment Volume (m ³)	Source Material		SNM		
		Source Material Code	Weight of Source Material (grams)	SNM Code	Total SNM (grams)	Maximum grams SNM in any shipment (grams)
16	17	18	19	20	21	22
1	N/A	N/A	427.83	N/A	N/A	N/A
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						

- E. POST-PROCESSOR TREATMENT INFORMATION**

16 EFFECT OF TREATMENT
See instructions for B-7.

17 TOTAL POST-TREATMENT VOLUME
Volume must be noted in cubic meters (m³).
- F. OTHER CHARACTERISTICS**

18 SOURCE MATERIAL CODE
Source Material C. Enter one code per line. Use a separate line for each type of source material transferred.
NU Natural Uranium
DU Depleted Uranium
UO Uranium Ores
NT Natural Thorium
TO Thorium Ores

19 WEIGHT OF SOURCE MATERIAL
Weight must be noted in grams (g).
- 20 SNM CODE**
Special Nuclear Material means one of the following:

SNM1 Plutonium
SNM2 Uranium-233

SNM3 Uranium enriched in the isotope 233 or in the isotope 235
SNM4 Any material artificially enriched by any of the foregoing
- 21 TOTAL SNM**
Weight must be noted in grams(g).

22 MAXIMUM GRAMS SNM IN ANY SHIPMENT
Self-explanatory.

SECTION II. INFORMATION ON LLRW (cont.)

F. OTHER CHARACTERISTICS (cont.)				G. DISPOSAL AND STORAGE INFORMATION			
Waste With Chelating Agents							
Chelate Code	Volume and Weight of LLRW		Weight % Chelates	LLRW Class	Disposition Code	Disposal Site Code	Storage Site Code
	Volume (m ³)	Weight (kg)					
23	24	25	26	27	28	29	30
1	-	-	-	AU	D1	DS2	N/A
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							

3 CHELATE CODE

CA1 EDTA
CA2 DTPA
CA3 Carboic Acid
CA4 Hydroxy-carboic Acids
CA5 Citric Acid
CA6 Glucinic Acid
CA7 Other (describe)

4 VOLUME OF LLRW

Volume of LLRW containing chelating agents (m³).

5 WEIGHT OF LLRW

Weight of LLRW containing chelating agents (kg).

6 WEIGHT % CHELATES

Weights less than 1% need not be reported.

G. DISPOSAL AND STORAGE

27 LLRW CLASS

Class of radioactive waste as described in sections 61.55 and 61.56 of Title 10, Code of Federal Regulations, as in effect on January 26, 1983, attached following instructions.

AS Class A stable
AU Class A unstable
B Class B
C Class C

28 DISPOSITION CODE

D1 Directly to disposal
D2 Treatment prior to disposal
D3 Treatment/returned for storage
D4 Treatment/no disposal (decontamination and reuse)
D5 Storage/no treatment
D6 Hold for decay on site and dispose as non-radioactive
D7 Hold for decay off site and dispose as non-radioactive
D8 Treatment/off-site storage
D9 Other (describe)

29 DISPOSAL SITE

DS1 Barnwell, SC
DS2 Clive, UT
DS3 Richland, WA
DS4 Other (describe)

30 STORAGE SITE

S1 On site
S2 Radiac
S3 NDL
S4 Adco
S5 Other (describe)

H. LLRW NOT MEETING DISPOSAL FACILITY ACCEPTANCE CRITERIA

LLRW Class	Hazard Code	Volume (m ³)	Activity (MBq)	Radionuclides
31	32	33	34	35
N/A	N/A	N/A	N/A	N/A

H. LLRW WITH UNACCEPTABLE DISPOSAL CRITERIA

- 31 **LLRW CLASS**
See codes G-27.
- 32 **HAZARD CODE**
See codes B-4.
- 33 **VOLUME**
Volume must be noted in cubic meters (m³).
- 34 **ACTIVITY**
Activity must be reported in MegaBecquerels (MBq).
- 35 **RADIONUCLIDES**
As applicable to H-3.

I. CONTAINERS WITH SURFACE RADIATION LEVELS GREATER THAN 2mSv/hr (200mR/hr)

LLRW Class		Volume (m ³)	Activity by Radionuclide (MBq)
36		37	38
N/A	N/A	N/A	N/A

SECTION III. LLRW SUMMARY (In order for information to total correctly, press the TAB key to navigate between cells)

A. DISPOSAL TOTALS FOR THIS YEAR								
Classes	Disposed at: Barnwell, SC		Disposed at: Clive, UT		Disposed at: Richland, WA		SUBTOTALS BY CLASS	
Class A	Volume (m³)	Activity (MBq)	Volume (m³)	Activity (MBq)	Volume (m³)	Activity (MBq)	Volume –A	Activity –A
Via Broker/ Processor							00000.00000	00000.00000
Direct Transfer			10.35000	09.72550			00010.35000	00009.72550
Class B							Volume –B	Activity –B
Via Broker/ Processor							00000.00000	00000.00000
Direct Transfer							00000.00000	00000.00000
Class C							Volume –C	Activity –C
Via Broker/ Processor							00000.00000	00000.00000
Direct Transfer							00000.00000	00000.00000
TOTALS	00000.00000	00000.00000	00010.35000	00009.72550	00000.00000	00000.00000		
TOTAL ALL CLASSES							VOLUME	ACTIVITY
							00010.35000	00009.72550

(In order for information to total correctly, press the TAB key to navigate between cells)

B. INTERIM STORAGE TOTALS						
Classes	Placed in Interim Storage during this year		Placed in Interim Storage before this year		SUBTOTALS BY CLASS	
Class A	Volume (m³)	Activity (MBq)	Volume (m³)	Activity (MBq)	Volume - A	Activity - A
On Site					00000.00000	00000.00000
Off Site					00000.00000	00000.00000
Class B					Volume - B	Activity - B
On Site					00000.00000	00000.00000
Off Site					00000.00000	00000.00000
Class C					Volume - C	Activity - C
On Site					00000.00000	00000.00000
Off Site					00000.00000	00000.00000
TOTALS	00000.00000	00000.00000	00000.00000	00000.00000		
TOTAL ALL CLASSES					00000.00000	00000.00000

SECTION IV. RADIONUCLIDE INFORMATION FOR WASTE DISPOSED, HELD FOR DECAY, AND STORED

NOTE: Radionuclides mean each individual radionuclide if known, or, at a minimum, all radionuclides that have been or would have to be identified on disposal site manifests. H-3, C-14, Tc-99, and I-129 **must be identified** where present.

A.1 List the radionuclides contained in the **LLRW disposed of** during this year (see response to Section III-A). **Use additional sheets as necessary.** (In order for information to total correctly, press the TAB key to navigate between cells)

Radionuclide	Activity (MBq)	Radionuclide	Activity (MBq)	Radionuclide	Activity (MBq)
Th-232	00.22422				
U-234	04.69900				
U-235	00.28823				
U-238	04.51400				
					Total Activity in MBq 00009.72545

Total activity for all radionuclides listed above:
Total activity should equal total for LLRW **disposed** of, as reported in Section III-A.

A.2	If any of the radionuclides listed in Table A-1 have half-lives of less than 90 days, please explain why these are not being held for decay and eventual disposal as non-radioactive waste.
N/A	

B.1 List the radionuclides contained in the LLRW being held in storage for decay on site as of December 31. Use additional sheets as necessary.

Radionuclide	Radionuclide	Radionuclide	Radionuclide	Radionuclide	Radionuclide
N/A					

B.2	List the radionuclides contained in the LLRW being held in storage for decay off site as of December 31. Use additional sheets as necessary.
------------	--

Radionuclide	Radionuclide	Radionuclide	Radionuclide	Radionuclide	Radionuclide
N/A					

C.1 (In order for information to total correctly, press the TAB key to navigate between cells)

[illegible]

Total activity for all radionuclides listed above:
Total activity should equal total for LLRW **stored on site**, as reported.

Total activity should equal total for LLRW stored on site, as reported.

C.2

Off site B List radionuclides contained in LLRW in **interim storage off site** as of December 31. Use additional sheets as necessary.

(In order for information to total correctly, press the TAB key to navigate between cells)

Radionuclide	Activity (MBq)	Radionuclide	Activity (MBq)	Radionuclide	Activity (MBq)
					Total Activity in MBq 00000.00000

Total activity for all radionuclides listed above:

Total activity should equal total for LLRW being **stored off site**, as reported.

C.3

If any of the radionuclides listed in Table C-1 or C-2 have half-lives of less than 90 days, please explain why these are not being held for decay and eventual disposal as non-radioactive waste.

--

SECTION V. STORAGE FACILITY INFORMATION

NOTE: If your facility manages LLRW by storage for decay only, you only need to complete the Condensed Form for Decay in Storage Only.

ON-SITE STORAGE FACILITIES	
A.1	Briefly describe your on-site LLRW storage facilities. Include facilities you have for storage of special LLRW forms such as freezers, shielded areas for high-radiation-level wastes, or bermed storage areas for liquid wastes, and estimate the storage capacity for each.
A.2	Total Storage Capacity: _____ m ³
A.3	Estimated maximum volume of LLRW held in storage for decay at any one time: _____ m ³

B	Do you have any plans for increasing your on-site storage capacity?	<input type="checkbox"/> No. Skip to C. <input type="checkbox"/> Yes. Complete this section.
Describe such plans and indicate your expected new storage capacity.		

OFF-SITE STORAGE FACILITIES	
C Off-site storage facility information. Use additional pages if necessary.	
Please indicate if off-site storage is for storage for decay or interim storage.	<input type="checkbox"/> Storage for decay <input type="checkbox"/> Interim storage
Name of facility:	
Address:	
Contact and phone number:	

NOTE: Please answer the following question based on LLRW requiring disposal at licensed LLRW disposal facilities, *not* LLRW held in storage for decay. DO NOT USE DESCRIPTIVE TERMS SUCH AS UNLIMITED, CONTINUOUS, OR INDEFINITE.

ESTIMATED STORAGE TIME FOR LLRW REQUIRING DISPOSAL	
D	Based on your anticipated LLRW generation rate and your anticipated capacity to store waste as of December 31, HOW MANY MONTHS could you continue to produce and store LLRW on site if access to licensed LLRW disposal facilities were no longer available?
NOTE: Answer <i>must</i> be in months.	
_____ months	

SECTION VI. FUTURE LLRW GENERATION

2010 FUTURE LLRW GENERATION THAT WILL REQUIRE DISPOSAL

(In order for information to total correctly, press the TAB key to navigate between cells)

Year	Class	Activity (MBq)	Volume (m ³)	Radionuclides
2011	A	0.000	0.000	
	B			
	C			
	Total	0.000	0.000	
2012	A	0.000	0.000	
	B			
	C			
	Total	0.000	0.000	
2013	A	0.000	0.000	
	B			
	C			
	Total	0.000	0.000	
2014	A	0.000	0.000	
	B			
	C			
	Total	0.000	0.000	
2015	A	0.000	0.000	
	B			
	C			
	Total	0.000	0.000	

SECTION VII. ATTACHMENT SHEET
FOR ANY ADDITIONAL INFORMATION

Section I, Generator Information
Facility Type Code - I, Industrial Other. The facility is a non-active manufacturing plant.

Section II Information on LLRW
Waste Description Code - A59 Other. Steel and Dry Active Waste (DAW).

Section II, Information on LLRW
Container Description Code - 19 Other. Gondola car.
Processor Code - P10 - Other. Energy Solutions.